



# Space Life Sciences Lab Core Capability

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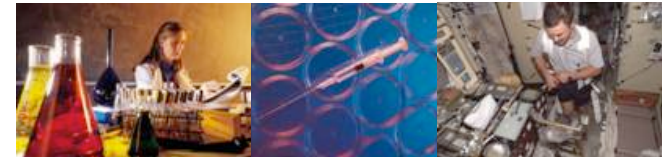
**Kennedy Space Center**

## Objective:

- ◆ **Maintain NASA's partnership with the State of Florida in performing Biological and technology system development in support of the Exploration Mission and the Center's core responsibility to prepare payloads for flight.**
  - Animal Care Facility
  - Payload Support Labs
  - Bio-molecular/Microbial Ecology Lab
  - Analytical Chemistry lab
  - Controlled Environment Lab
  - Engineering Support Lab
  - Lighting Test Bed
  - Low Pressure Test Bed



Space Life Science Lab



Preparing biological payloads for flight and using biological systems for Exploration life support needs.

## Relevance/Impact:

- ◆ **Provides infrastructure to enable ISS Research including non-exploration research and maturation of critical Exploration technologies.**
- ◆ **Reduces mission risk at the launch site and assures payload support capabilities.**
- ◆ **Improved equipment and test methods leads to better understanding, increased safety margins, and better performance in the exploration environments.**

## Approach:

- ◆ **Integrate Center funding and ISS Research funds to address launch processing and technology development issues associated with Exploration.**
- ◆ **Center offsets significant portion of the O&M cost.**

## Schedule

| Key Milestones/Deliverables   | Date  |
|---|---|
| Review of Lab capabilities and working with our partners to build plans to satisfy needs. | Review Plan Monthly                                       |
| Review of Lab requirements and needs and prepare budget submittal.                        | March 15 each year  |
| Maintain the facility and all labs in basic operational condition.                        | Daily<br>Report Monthly                                   |
| Maintain contract vehicles to support specific and peak personnel needs.                  | Contract tasking by August 1<br>Annual Perf. Plan Sept 30 |
| Provide basic science and engineering capabilities support to all payload customers       | Deliver list of Customers monthly                         |